

## ➤ Toolroom Equipment

- (1) Yasda YMC 430 Micro Center with 5-Axis Turntable
- (1) Makino A51NX Horizontal 4-axis Mill
- (1) Yasda YBM640V High Speed Mill
- (1) Makino V55 High Speed Mill
- (1) Makino F5 High Speed Mill
- (1) Mazak Quick Turn Nexus 200-II CNC Lathe
- (1) Rodgers RFM 600 High Speed Graphite/Steel Mill
- (1) Rodgers RXP 500 High Speed Graphite/Steel Mill
- (1) 3R Workmaster Robot:  
integrated 4th axis/indexing, changes steel, electrodes,  
tools/cutters, and all tool holding systems including  
3R Macro and Dynafix Pallets
- (3) Fanuc CNC Wire EDM's
- (2) Mitsubishi EX 22 CNC Sinker EDM's w/32 pos. Toolchanger  
and combi-chuck
- (1) Mitsubishi EA8 CNC Sinker w/16 pos. Toolchanger  
and combi-chuck
- (2) Mitsubishi EA12 Sinkers EDM's with 3R Workmaster  
Robot/Automated EDM Cell \*All  
EDM/CNC equipment equipped with 3R macro tooling
- (1) Moore Jig Grinder
- (1) Bridgeport EZ Trak 3 axis Mill
- (1) Bridgeport Series 1 Vertical Mills  
w/DRO's-Power Feeds
- (1) Willis, 4' Radial Arm Drill Press
- (1) Okamoto 12.24. DX Hydraulic Surface Grinder
- (6) Mitsui 612 Surface Grinders w/DRO's
- (1) Mitsui 818 Surface Grinder w/DRO
- (1) Clausing Engine Lathe
- (1) Johnson Band Saw
- (1) DoAll Band Saw
- (1) Alliance ID1 Fiber Laser Welder
- (1) Miller Maxstar TIG Welder
- (1) Lucifer Heat Treat Furnace w/programmable timer
- (1) Electra Heat Treat Furnace w/programmable timer
- (1) IPSCO EJ Pin Cut Off Machine
- (1) Beamer Laser Marking System

## ➤ Engineering

- (15) Creo Parametric licenses
- (4) Creo Mold licenses
- (4) Creo Expert Moldbase Extension (EMX) licenses
- (3) Creo NC licenses
- (1) Moldex 3D E-Design Mold Simulation Software,  
Flow, Cool, Warp, Shrink, and Fiber Orientation
- (2) CAM-TOOL licenses
- (3) MasterCam licenses
- (1) SolidWorks 2017 License
- (3) Windows Server 2012 Virtual Network using  
VMWare and VMWare Horizon Desktop

## ➤ Molding & Validation

- (1) 55 Ton Roboshot
- (1) 80 Ton Battenfeld Press
- (1) 110 Ton Roboshot Press
- (1) 110 Ton Roboshot Press w/ robot
- (1) 200 Ton Niigata Press w/ robot
- (1) 315 Ton Niigata Press w/ robot
- (1) 394 Ton Niigata Press w/ robot
- (1) 550 Ton Husky Hylelectric Press
- (1) 6-Axis Fanuc LR Mate 200iD Robot
- (1) UR-5 6-Axis Robot
- (1) UR-10 6-Axis Robot
- (2) eDart Systems
- (1) eDart Data Management Server
- (1) Motan Luxor 400 Drying System w/ 7 hoppers
- (3) Mobile Dri-Air Dryers w/ Integrated hoppers
- (1) AEC TDH4Q Hot Oil Controller
- (1) Wittman Hot Water(270°F) Thermolator
- (5) Conveyors, Star/EMI
- (1) Pallet Wrapper
- (1) Haas VF-1 CNC Vertical Machining Center

## ➤ Quality/Lab

- (1) Brown and Sharp Advantage CMM running PC-DMIS
- (1) Brown and Sharp Image CMM with indexing probe Head  
CMM running PC-DMIS
- (1) OGP Flash 302 Touch, Laser, Automated  
Vision System
- (1) OGP Flash 200 SmartScope, Automated  
Vision System
- (2) Nikon - MM40 Toolmakers Microscope
- (1) Mahr Perthometer
- (1) Computrac Moisture Analyzer
- (1) Zeiss Calypro Seat for CT Scan Analyzing

## ➤ Secondary Operations

- (1) Dukane Ultra 210 Sonic Welder
- (1) Aero 130 Pro Printer (Pad Printer)
- (1) Primo Cure Drying Tunnel
- (1) Miscellaneous Tools for Assembly/  
Secondary Operations

### **31,350 Total Sq. Ft. Facility**

#### **Plant 1 – Mold Manufacturing**

999 Production Drive, Wakefield, MI 49968

13,850 sq. ft. facility customized for injection mold toolmaking. Support equipment as required for precision mold making, including 6'x 8' granite plate

#### **Plant 2 – Mold Sampling/ Validation/ Post Sample/ Toolwork**

703 Chippewa Drive, Wakefield, MI 49968

17,500 sq. ft. facility customized for injection mold sampling, process development, quality control and validation, and post sample tool work including debug, tweaking/tuning, engineering changes, and mold repair.